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# United States Department of Agriculture,

OFFICE OF EXPERIMENT STATIONS—Circular No. 52.

A. C. TRUE, Director.

## A FEW GOOD BOOKS AND BULLETINS ON NATURE STUDY, SCHOOL GARDENING, AND ELEMENTARY AGRICULTURE FOR COMMON SCHOOLS.

By D. J. CROSBY,

*Office of Experiment Stations.*

The following list of publications is not comprehensive; it is purposely very much abridged. It has not been the aim to list all the good works published on nature study, school gardening, and elementary agriculture. Such a list would be so long as to be confusing to both teacher and pupil. The aim has been rather to suggest a few (1) books which would aid the teacher just beginning nature-study work to get the proper point of view, (2) supplementary aids for the teacher, (3) interesting nature-stories for pupils, (4) up-to-date elementary texts on agriculture, suitable for pupils in the last two years of the grammar school and the first two years of the high school, and (5) publications which might serve as the nucleus for a public school agricultural library.

### NATURE STUDY AND SCHOOL GARDENING.

#### BOOKS FOR TEACHERS.

- Bailey, L. H. *The Nature Study Idea* (New York: Doubleday, Page & Co., 1903, pp. 159, figs. 2).  
 Goff, E. S. *Principles of Plant Culture* (Madison: E. S. Goff, 1897, pp. 276, figs. 173).  
 Hemenway, H. D. *How to Make School Gardens* (New York: Doubleday, Page & Co., 1903, pp. XVI+107, pls. 8, figs. 16).  
 Hodge, C. F. *Nature Study and Life* (London and Boston: Ginn & Co., 1902, pp. 514, pl. 1, figs. 196).  
 Jackman, W. S. *Field Work in Nature Study* (Chicago: A. Flanagan Co., 1894, pp. IV+129, il.).

#### SUPPLEMENTARY READING FOR TEACHERS.

- Bulletins and Leaflets on Nature Study and School Gardening published by—  
 New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.  
 Cornell University, Ithaca, N. Y.  
 State Department of Agriculture, Harrisburg, Pa.  
 Rhode Island College of Agriculture and Mechanic Arts, Kingston, R. I.  
 Hampton Normal and Agricultural Institute, Hampton, Va.

Farmers' Bulletins published by the U. S. Department of Agriculture, Washington, D. C.:

- No. 42. Facts About Milk. Pp. 29.
- No. 54. Some Common Birds. Pp. 40.
- No. 86. Thirty Poisonous Plants. Pp. 32.
- No. 93. Sugar as Food. Pp. 27.
- No. 95. Good Roads for Farmers. Pp. 47.
- No. 99. Insect Enemies of Shade Trees. Pp. 30.
- No. 111. The Farmer's Interest in Good Seed. Pp. 24.
- No. 127. Important Insecticides. Pp. 42.
- No. 128. Eggs and Their Uses as Foods. Pp. 32.
- No. 134. Tree Planting in Rural School Grounds.
- No. 154. The Fruit Garden: Preparation and Care. Pp. 20.
- No. 155. How Insects Affect Health in Rural Districts. Pp. 20.
- No. 157. The Propagation of Plants. Pp. 24.
- No. 173. Primer of Forestry. Pp. 48.

#### SUPPLEMENTARY READING FOR PUPILS.

- Burroughs, John. Works (Boston and New York: Houghton, Mifflin & Co., 11 vols.).
- Burroughs, John. A Year in the Fields (Boston and New York: Houghton, Mifflin & Co., 1901, pp. XIV+220, pls. 24).
- Harrington, M. W. About the Weather (New York: D. Appleton & Co., 1899, pp. 246, il.).
- Long, W. J. Fowls of the Air (London and Boston: Ginn & Co., 1902, pp. 310, il.).
- Long, W. J. School of the Woods (London and Boston: Ginn & Co., 1902, pp. XIII+364, pls. and 12 marginal illustrations).
- Long, W. J. Wood Folks at School (London and Boston: Ginn & Co., 1903, pp. 188, il.).
- Seton, Ernest Thompson. Lives of the Hunted (New York: Charles Scribners' Sons, 1901, pp. 360, il.).
- Seton, Ernest Thompson. Wild Animals I Have Known (New York: Charles Scribners' Sons, 1898, pp. 358, il.).
- Leaflets:
  - Blair, J. C. The Study of Horticulture.
  - Davenport, E. The Study of Farm Animals.
  - Davenport, E. The Study of Agriculture.
  - Shamel, A. D. The Study of Farm Crops.
 (Taylorville, Ill.: C. M. Parker, 1901-1903.)

#### ELEMENTARY AGRICULTURE.

##### TEXT-BOOKS.

For the Seventh and Eighth Grades:

- Bessey, C. E., et al. New Elementary Agriculture (Lincoln, Nebr.: The University Publishing Co., 1903, pp. X+194, figs. 62).
- Burkett, C. W., et al. Agriculture for Beginners (London and Boston: Ginn & Co., 1903, pp. XII+267, figs. 215 and frontispiece).
- James, C. C. Practical Agriculture (American edition edited by John Craig. New York: D. Appleton & Co., 1902, pp. VIII+203, pls. 11, figs. 90).

For the Ninth and Tenth Grades :

Bailey, L. H. Principles of Agriculture (New York and London : The Macmillan Co., 1898, pp. XVI+300, figs. 92).

Brooks, W. P. Agriculture (Springfield, Mass.: The Home Correspondence School 1901, vol. 1, pp. XVII+199, figs. 55, map 1; vol. 2, pp. XXIV+201-541, figs. 119, map 1; vol. 3, pp. XXI+543-855, figs. 122).

#### BOOKS AND BULLETINS FOR REFERENCE.

Bailey, L. H. The Garden-Craft Series. (New York : The Macmillan Co.)

The Horticulturist's Rule-Book.

Plant-Breeding.

The Forcing-Book.

The Nursery-Book.

Garden-Making. Suggestions for the Utilization of Home Grounds.

The Pruning Book.

The Practical Garden Book.

Bailey, L. H. (Editor). The Rural Science Series. (New York : The Macmillan Co.)

Bailey, Principles of Agriculture.

Bailey, Principles of Fruit-Growing.

Bailey, Principles of Vegetable-Gardening.

Card, Bush-Fruits.

Fairchild, Rural Wealth and Welfare.

Jordan, Feeding of Animals.

King, The Soil.

King, Irrigation and Drainage.

Lodeman, The Spraying of Plants.

Roberts, The Fertility of the Land.

Roberts, The Farmers' Business Handbook.

Roberts, The Farmstead.

Voorhees, Fertilizers.

Watson, Farm and Poultry.

Wing, Milk and Its Products.

Bailey, L. H. Lessons with Plants (New York : The Macmillan Co., 1899, pp. 491, figs. 446).

Conn, H. W. Agricultural Bacteriology (Philadelphia : P. Blakiston's Sons & Co., 1901, pp. 412, figs. 40).

Craig, John A. Judging Live Stock (Ames, Iowa : Published by the Author, 1901, pp. 193, il.).

Decker, J. W. Cheddar Cheese Making (Madison, Wis.: Published by the Author, 1895, pp. 151, il.).

Decker, J. W. Elements of Dairying (Columbus, O.: Published by the Author, 1903, pp. 114, il.).

Gurler, H. B. American Dairying (Chicago: Breeder's Gazette Print, 1894, pp. 267, il.).

Hampton Agriculture Leaflets (Hampton, Va.: Hampton Institute Press.)

Hampton Animal Industry Leaflets (Hampton, Va.: Hampton Institute Press.)

Hays, W. M., et al. Rural School Agriculture Bulletin 1 (St. Anthony Park, Minn., Department of Agriculture, University of Minnesota).

Howard, W. L. Plant Propagation—Some Phases of Practical Horticulture Adapted to Use in the Public Schools (Columbia, Mo.: Agricultural Experiment Station, Circular of Information No. 13, 1902, pp. 50, figs. 20).

- King, F. H. Text-Book of the Physics of Agriculture (Madison, Wis.: Published by the Author, 1901, pp. 604, il.).
- Mumford, F. B. The Principles of Plant Production—The Seed (Columbia, Mo.: Agricultural Experiment Station, Circular of Information No. 15, 1903, pp. 38, figs. 11).
- Snyder, Harry. Chemistry of Dairying (Easton, Pa.: Press of the Chemical Pub. Co., 1897, pp. 156).
- Snyder, Harry. Chemistry of Plant and Animal Life (Easton, Pa.: Press of the Chemical Pub. Co., 1903, pp. XVII+406, il.).
- Snyder, Harry. Chemistry of Soils and Fertilizers (Easton, Pa.: Press of the Chemical Pub. Co., 1899, pp. 277, il.).
- Van Slyke, L. L. Modern Dairy Science and Practice (Harrisburg, Pa.: Department of Agriculture, Bulletin 104, 1902, pp. 127, il.).
- Voorhees, E. B. First Principles of Agriculture (New York: Silver, Burdett & Co., 1896, pp. 212).
- Wallace, R. H. Agriculture (Philadelphia: J. B. Lippincott Co., 1895, pp. 352, figs. 136).
- Weed, C. M. Fungi and Fungicides (New York: O. Judd Co., 1894, pp. 228).
- Weed, C. M. Spraying Crops: Why, When, and How (New York: O. Judd Co., 1903. 4. ed., pp. XI+136, il.).
- Whitcher, Geo. H. An Outline Course in Agriculture for Public Schools (Durham, N. H.: Published by the Author, 1903, pp. 12).
- Woll, F. W., et al. Handbook for Farmers and Dairymen (New York: John Wiley & Sons, 1900, 2. ed., pp. 437).
- Course of Study for the Common Schools of Illinois—Third General Revision (Taylorville, Ill.: C. M. Parker, 1903, pp. 219).
- Course of Study for Rural and Village Schools (Jefferson City, Mo.: State Department of Education, 1903, pp. 32).
- Experiment Station Work (Subseries of Farmers' Bulletins, U. S. Department of Agriculture, Washington, D. C.).
- Farmers' Bulletins (U. S. Department of Agriculture, Washington, D. C.).
- Select bulletins wanted from complete list.
- Monthly List of Publications (Division of Publications, U. S. Department of Agriculture, Washington, D. C.).
- Will be sent regularly to all who apply for it.
- Yearbooks of the U. S. Department of Agriculture, Washington, D. C.
- Obtain through Members of Congress.

Recommended for publication.

A. C. TRUE, *Director*.

Publication authorized.

JAMES WILSON,  
*Secretary of Agriculture.*

WASHINGTON, D. C., November 13, 1903.

# United States Department of Agriculture,

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### NATURE STUDY AND SCHOOL GARDENING.

#### BOOKS FOR TEACHERS.

- Bailey, L. H. *The Nature Study Idea* (New York: Doubleday, Page & Co., 1903, pp. 159, figs. 2).  
 Goff, E. S. *Principles of Plant Culture* (Madison: E. S. Goff, 1897, pp. 276, figs. 173).  
 Hemenway, H. D. *How to Make School Gardens* (New York: Doubleday, Page & Co., 1903, pp. XVI+107, pls. 8, figs. 16).  
 Hodge, C. F. *Nature Study and Life* (London and Boston: Ginn & Co., 1902, pp. 514, pl. 1, figs. 196).  
 Jackman, W. S. *Field Work in Nature Study* (Chicago: A. Flanagan Co., 1894, pp. IV+129, il.).  
 Miller, Louise K. *Children's Gardens* (New York: D. Appleton & Co., 1904, pp. XIV+235, pls. 42, dgm. 1).

#### SUPPLEMENTARY READING FOR TEACHERS.

- Beal, W. J. *Seed Dispersal* (Boston: Ginn & Co., 1898, pp. 87, figs. 63).  
 Bulletins and Leaflets on Nature Study and School Gardening, published by—  
   Maine State Superintendent of Public Schools.  
   Michigan State Department of Public Instruction.  
   New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.  
   Cornell University, Ithaca, N. Y.  
   State Department of Agriculture, Harrisburg, Pa.  
   Rhode Island College of Agriculture and Mechanic Arts, Kingstons, R. I.  
   Hampton Normal and Agricultural Institute, Hampton, Va.

Farmers' Bulletins published by the U. S. Department of Agriculture, Washington, D. C.:

- No. 54. Some Common Birds. Pp. 40.
- No. 86. Thirty Poisonous Plants. Pp. 32.
- No. 94. The Vegetable Garden. Pp. 24.
- No. 99. Insect Enemies of Shade Trees. Pp. 30.
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- No. 155. How Insects Affect Health in Rural Districts. Pp. 20.
- No. 127. The Propagation of Plants. Pp. 24.
- No. 173. Primer of Forestry. Pp. 48.
- No. 185. Beautifying the Home Grounds. Pp. 24.
- No. 195. Annual Flowering Plants. Pp. 48.
- No. 196. Usefulness of the American Toad. Pp. 16.
- No. 218. The School Garden. Pp. 40.

Gibson, W. H. Blossom Hosts and Insect Guests (New York: Newson & Co., 1901, pp. XX+197, pls. 11, figs. 111).

The Nature Study Review (A bimonthly magazine published at 525 West 120th Street, New York City).

#### SUPPLEMENTARY READING FOR PUPILS.

Boys and Girls (A nature study magazine which reproduces the nature study lessons prepared at Cornell University. Published at Ithaca, N. Y.).

Burroughs, John. Works (Boston and New York: Houghton, Mifflin & Co., 11 vols.).

Burroughs, John. A Year in the Fields (Boston and New York: Houghton, Mifflin & Co., 1901, pp. XIV+220, pls. 24).

Chamberlain, J. F. How We are Fed (New York and London: The Macmillan Co., 1904, pp. XII+214, figs. 63).

Comstock, Anna B. Ways of the Six-footed (Boston: Ginn & Co., 1903, pp. XII+152, figs. 47).

Duncan, Frances. Mary's Garden and How It Grew (New York: The Century Co., 1904, pp. VI+261, pls. 8, figs. 55).

Harrington, M. W. About the Weather (New York: D. Appleton & Co., 1899, pp. 246, il.).

Leaflets:

Blair, J. C. The Study of Horticulture.

Davenport, E. The Study of Farm Animals.

Davenport, E. The Study of Agriculture.

Mumford, H. W. The Study of Animal Husbandry.

Shamel, A. D. The Study of Farm Crops (Taylorsville, Ill.: C. M. Parker, 1901-1903).

Sever, F. P. Elements of Agriculture (Boston: D. C. Heath & Co., 1903, pp. X+41, figs. 16, dgms. 2).

#### ELEMENTARY AGRICULTURE.

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Bessey, C. E., et al. New Elementary Agriculture (Lincoln, Nebr.: The University Publishing Co., 1903, pp. X+194, figs. 62).

Burkett, C. W., et al. Agriculture for Beginners [With special supplement, 1904] (London and Boston: Ginn & Co., 1903, pp. XI+267, figs. 215, and frontispiece).

Goff & Mayne. First Principles of Agriculture (New York, Cincinnati, Chicago: American Book Co., 1904, pp. 248, colored pls. 8, figs. 135).

Goodrich, C. L. The First Book of Farming [Plant Production] (New York: Doubleday, Page & Co., 1905, pp. XX+259, figs. 86).

James, C. C. Practical Agriculture (American edition edited by John Craig. New York: D. Appleton & Co., 1902, pp. VIII+203, pls. 11, figs. 90).

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 The Practical Garden Book.
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 Bailey, Principles of Fruit-Growing.  
 Bailey, Principles of Vegetable-Gardening.  
 Card, Bush-Fruits.  
 Fairchild, Rural Wealth and Welfare.  
 Jordan, Feeding of Animals.  
 King, The Soil.  
 King, Irrigation and Drainage.  
 Lodeman, The Spraying of Plants.  
 Mayo, The Care of Farm Animals.  
 Roberts, The Fertility of the Land.  
 Roberts, The Farmers' Business Handbook.  
 Roberts, The Farmstead.  
 Voorhees, Fertilizers.  
 Watson, Farm and Poultry.  
 Wing, Milk and Its Products.
- Bailey, L. H. Lessons with Plants (New York: The Macmillan Co., 1899, pp. 491, figs. 446).
- Carrington, W. T. Elements of Agriculture for Public Schools (Columbia, Mo.: State Board of Agriculture, Monthly Bulletin 4 (1904), No. 5, pp. 40).
- Conn, H. W. Agricultural Bacteriology (Philadelphia: P. Blakiston's Sons & Co., 1901, pp. 412, figs. 40).
- Craig, John A. Judging Live Stock (Ames, Iowa: Published by the Author, 1901, pp. 193, il.).
- Decker, J. W. Cheddar Cheese Making (Madison, Wis.: Published by the Author, 1895, pp. 151, il.).
- Decker, J. W. Elements of Dairying (Columbus, Ohio: Published by the Author, 1903, pp. 114, il.).
- Fisher, M. L. Practical Studies in Agriculture for Public Schools (Lafayette, Ind.: Purdue University, 1904, pp. 40).
- Gurler, H. B. American Dairying (Chicago: Breeder's Gazette Print, 1894, pp. 267, il.).
- Hampton Agriculture Leaflets (Hampton, Va.: Hampton Institute Press).
- Hampton Animal Industry Leaflets (Hampton, Va.: Hampton Institute Press).
- Hays, W. M., et al. Rural School Agriculture Bulletin 1 (St. Anthony Park, Minn.: Department of Agriculture, University of Minnesota).
- Howard, W. L. Plant Propagation—Some Phases of Practical Horticulture Adapted to Use in the Public Schools (Columbia, Mo.: Agricultural Experiment Station, Circular of Information No. 13, 1902, pp. 50, figs. 20).
- King, F. H. Text-Book of the Physics of Agriculture (Madison, Wis.: Published by the Author, 1901, pp. 604, il.).

- Mumford, F. B. The Principles of Plant Production—The Seed (Columbia, Mo.: Agricultural Experiment Station, Circular of Information No. 15, 1903, pp. 38, figs. 11).
- Skinner, C. M. Little Gardens (New York: D. Appleton & Co., 1904, pp. X+25, figs. 10, dgms. 28).
- Snyder, Harry. Chemistry of Dairying (Easton, Pa.: Press of the Chemical Pub. Co., 1897, pp. 156).
- Snyder, Harry. Chemistry of Plant and Animal Life (Easton, Pa.: Press of the Chemical Pub. Co., 1903, pp. XVII+406, il.).
- Snyder, Harry. Chemistry of Soils and Fertilizers (Easton, Pa.: Press of the Chemical Pub. Co., 1899, pp. 277, il.).
- Van Slyke, L. L. Modern Dairy Science and Practice (Harrisburg, Pa.: Department of Agriculture, Bulletin 104, 1902, pp. 127, il.).
- Voorhees, E. B. First Principles of Agriculture (New York: Silver, Burdett & Co., 1896, pp. 212).
- Weed, C. M. Fungi and Fungicides (New York: O. Judd Co., 1894, pp. 228).
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- Whitcher, Geo. H. An Outline Course in Agriculture for Public Schools (Durham, N. H.: Published by the Author, 1903, pp. 12).
- Woll, F. W., et al. Handbook for Farmers and Dairyemen (New York: John Wiley & Sons, 1900, 2. ed., pp. 437).
- Course of Study for the Common Schools of Illinois—Third General Revision (Taylorville, Ill.: C. M. Parker, 1903, pp. 219).
- Course of Study for Rural and Village Schools (Jefferson City, Mo.: State Department of Education, 1903, pp. 32).
- Experiment Station Work (Subseries of Farmers' Bulletins, U. S. Department of Agriculture, Washington, D. C.).
- Farmers' Bulletins (U. S. Department of Agriculture, Washington, D. C.).
- Select bulletins from complete list.
- Monthly List of Department Publications (Division of Publications, U. S. Department of Agriculture, Washington, D. C.).
- Will be sent regularly to all who apply for it.
- Bimonthly List of Experiment Station Publications (Office of Experiment Stations, U. S. Department of Agriculture, Washington, D. C.).
- Will be sent regularly to all who apply for it.
- Yearbooks of the U. S. Department of Agriculture, Washington, D. C.
- Obtain through Members of Congress.

Recommended for publication.

A. C. TRUE, *Director*.

Publication authorized.

JAMES WILSON,

*Secretary of Agriculture.*

WASHINGTON, D. C., May 1, 1905.